

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REC'D	9	0	SEP	2004
WIPO				PC

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
BU-098XQ999	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/mon	th/year) Priority date (day/month/year)					
PCT/US03/11166	15 April 2003 (15.04.2003)	18 April 2002 (18.04.2002)					
International Patent Classification (IPC) or national classification and IPC							
IPC(7): B01D 53/22,71/02 and US Cl.: 9	95/55,56						
Applicant							
TRUSTEES OF BOSTON UNIVERSITY							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 7 sheets.							
This report contains indicat	tions relating to the following it	ems:					
I Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application							
Date of submission of the demand	Date of	completion of this report					
18 November 2003 (18.11.2003)		ist 2004 (17.08.2004)					
Name and mailing address of the IPEA/US	Authori	Authorized officer					
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents							
P.O. Box 1450 Alexandria, Virginia 22313-1450		H. Spitzer Jean Prottor Paralogal Spot and					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/11166

I.	Bas	is of the report
1.	Witt	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 2-7,9,11,13,15 as originally filed
		pages NONE , filed with the demand pages 1,8,10,12 and 14 , filed with the letter of 16 April 2004 (16.04.2004)
		, filed with the letter of 16 April 2004 (16.04.2004)
	\boxtimes	the claims:
		pages 18, as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand , filed with the letter of 16 April 2004 (16.04.2004)
		, med with the letter of 10 April 2004 (16.04.2004)
	\boxtimes	the drawings:
		pages 1-4 , as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
	Ш	the sequence listing part of the description:
		pages NONE , as originally filed pages NONE , filed with the demand
		pages NONE, filed with the letter of
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the
	ramar	lage in which the international application was filed, unless otherwise indicated under this item
		e elements were available or furnished to this Authority in the following language which is:
	H	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	H	the language of publication of the international application (under Rule 48.3(b)).
	ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	inter	national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
	_	has been furnished.
4.	\boxtimes	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		
٠.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* 1	Replac	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
	·cpoi	· us Originally filed will are not annexed to this report since they do not contain amondments. (Dulay 70 16 and 70 17)
OLUI	PCT	placement sheet containing such amendments must be referred to under item 1 and annexed to this report. /IPEA/409 (Box D (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US03/11166

1. STATEMENT	ch statement	p or industrial applicability;
Novelty (N)	Claims 1-12	YES
	Claims NONE	NO
Inventive Step (IS)	Claims 1-12	YES
	Claims NONE	NO
Industrial Applicability (IA)	Claims 1-12	YES
	Claims NONE	NO
Claims 1-12 meet the criteria of PCT Articles 33 (2-solid state ceramic membrane wherein the reformate the other side of the membrane so that hydrogen per of record.	gge and cream are narred on one side of the	